

CLAIM AMENDMENTS

1-18 (canceled)

19. (new) An apparatus for detecting fuel pressure in a pressurized fuel volume bounded by a body structure attached to a combustion engine, said apparatus comprising:

    a piston having a first end in direct communication with said volume and also having an opposite second end,

    a resilient element having first and second opposite ends, the first end of the resilient element being between the piston and the second end of the resilient element,

    a first support element supporting the resilient element at its first end,

    a second support element supporting the resilient element at its second end,

    an intermediate part between the piston and the first support element for transmitting movement of the piston to the first support element, movement of the first support element in a direction towards the second support element being resisted by the resilient element,

    a movement restrictor for preventing movement of the piston in said direction beyond a position at which the first support element engages the movement restrictor,

    a first electrical circuit part connected to the movement restrictor,

    a second electrical circuit part connected to the resilient element, the first support element and the second support element, and

    insulator means insulating the first and second electrical circuit parts from each other and from the body structure when the first support element is spaced from the movement restrictor,

    whereby when pressure in the fuel volume urges the piston in said direction to said position, engagement of the first support element with the movement restrictor connects the first and second electrical circuit parts.

20. (new) An apparatus according to claim 19, wherein the resilient element is a spring.

21. (new) An apparatus according to claim 19, wherein the first electrical circuit part includes a first conductor and the second electrical circuit part includes a second conductor.

22. (new) An apparatus according to claim 19, wherein the resilient element is a coil spring, the movement restrictor is a tap comprising a body and a base, the body is located inside the coil spring, the base of the tap is located outside the coil spring, and the first electrical circuit part is connected to the base.

23. (new) An apparatus according to claim 19, wherein the resilient element is a coil spring, the movement restrictor comprises a base and a tap-like extension of the upper support, the tap-like extension is located inside the coil spring, the base is located outside the coil spring on the other side of the lower support in relation to the spring, and the first electrical circuit part is connected to the base.

24. (new) An apparatus according to claim 19, wherein the body structure bounds a first volume for the piston, a second volume for the intermediate part and the second end of the piston, a third volume for the resilient element, the upper and lower supports of the resilient element, the movement restrictor and the insulator parts, and fourth and fifth volumes for said first and second electrical circuit parts respectively.

25. (new) An apparatus according to claim 24, wherein the body structure bounds a sixth volume that is in communication with the third volume, thus forming a leakage channel for any material that leaks from the pressurized fuel volume.

26. (new) An apparatus according to claim 19, wherein the insulator parts comprise a plate located between the base of the movement restrictor and the body structure, and a ring located between the base of the movement restrictor and the lower support of the resilient element, to which support the second electrical circuit part is connected.

27. (new) An apparatus according to claim 19, wherein the insulator parts and the intermediate part are of ceramic material.